

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P478422

Luminaire Tested: **IFLD-L-SA8C-722-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478422  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-722-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (128) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

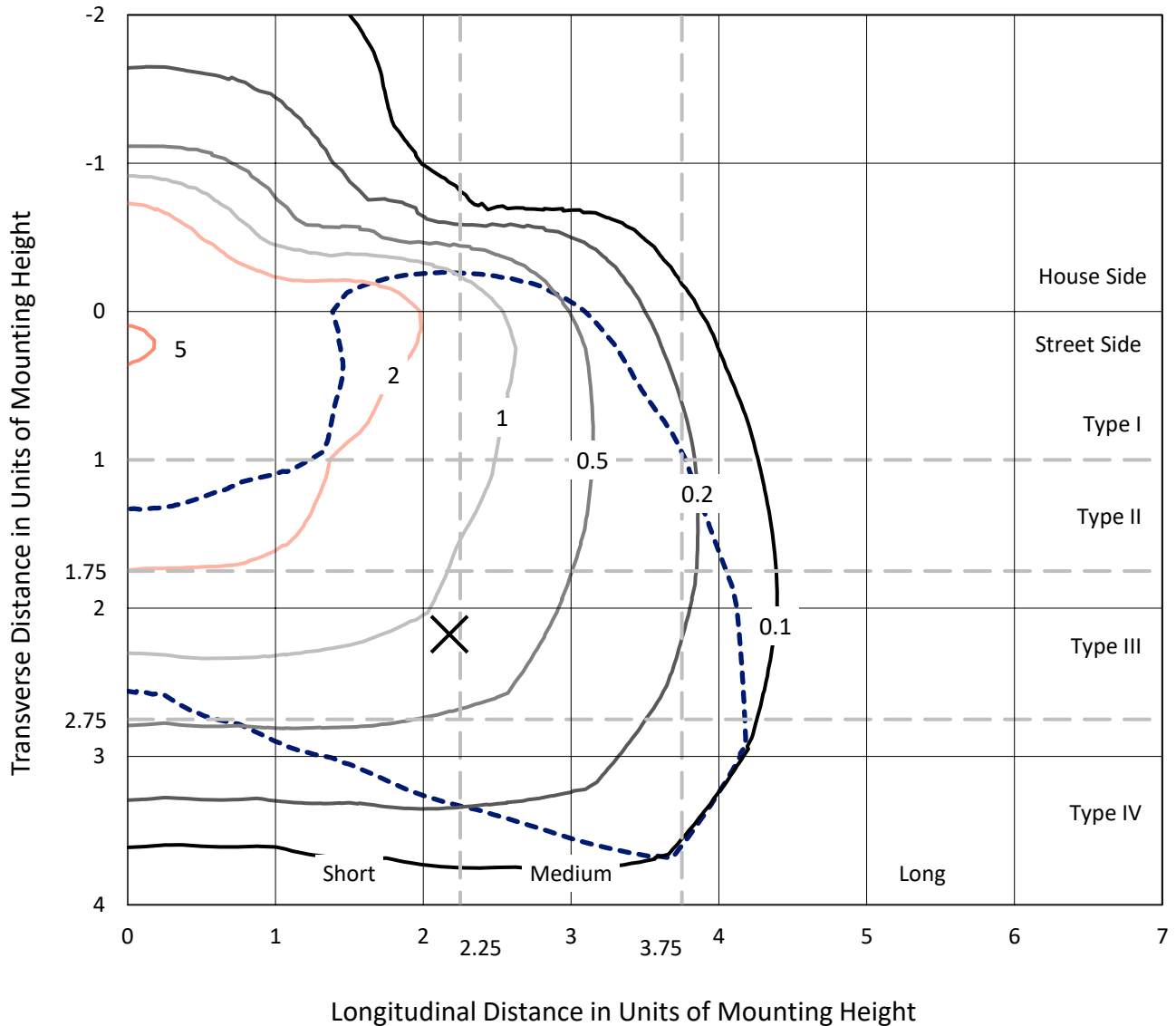
Lumens per Lamp: N/A  
Luminaire Lumens: 37721.4 lumens  
Efficiency: N/A  
Efficacy: 89.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 420.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Iso-Footcandle Lines of Horizontal Illumination

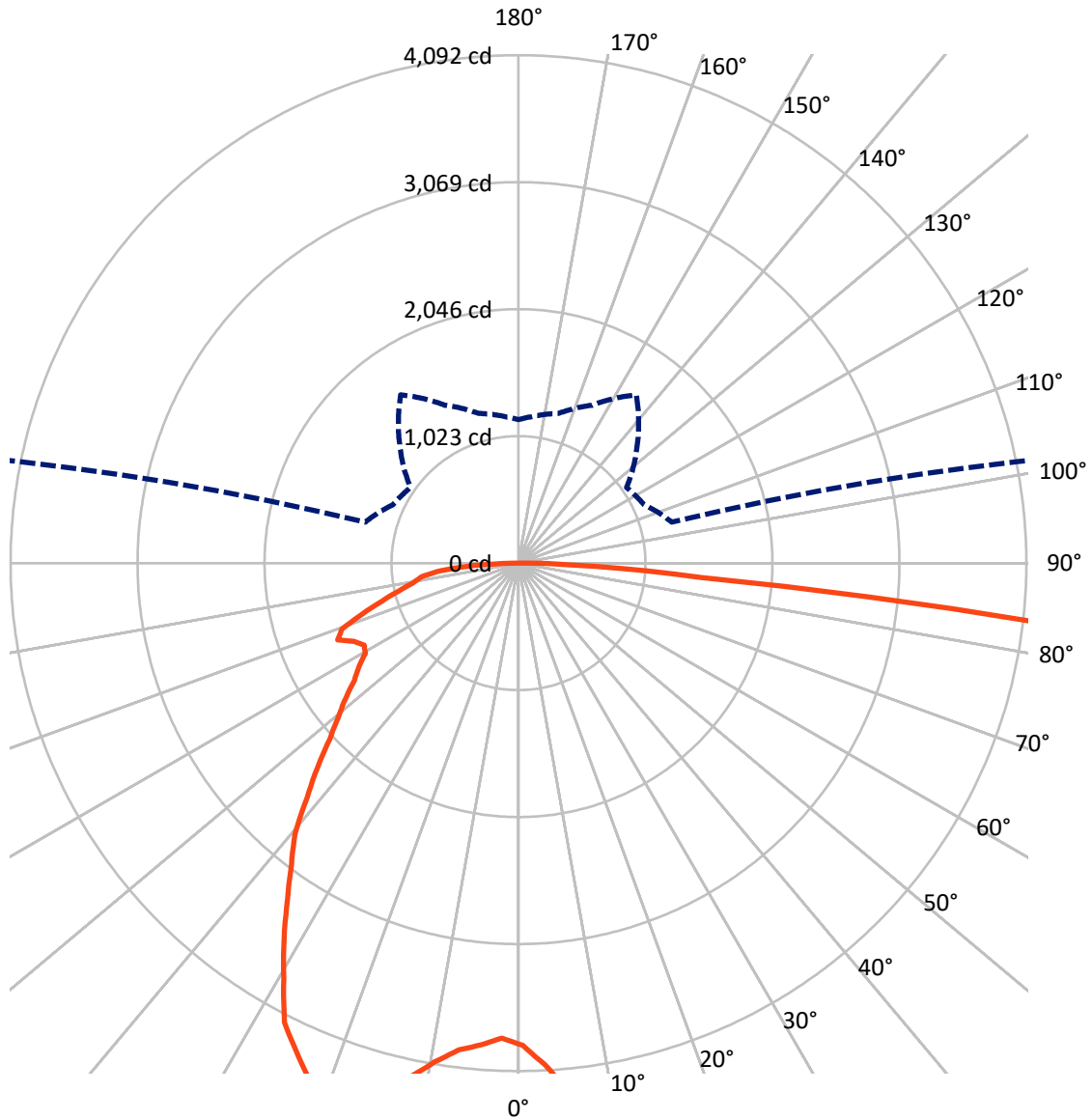
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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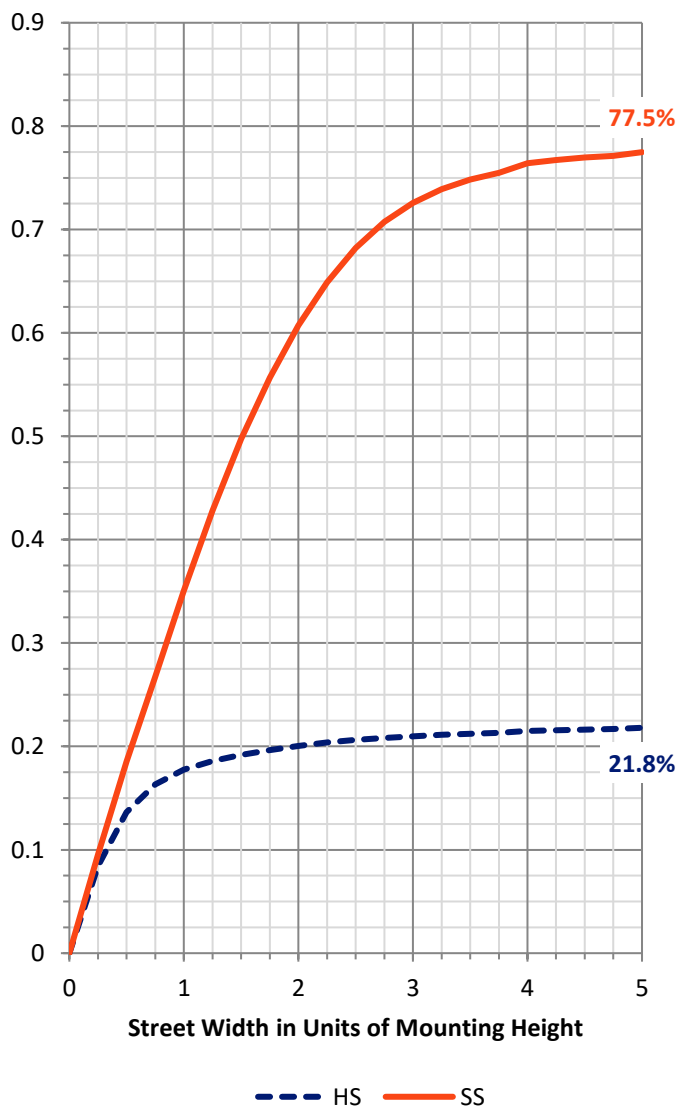
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8397.0	0.0	8397.0
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	29324.4	0.0	29324.4
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	37721.4	0.0	37721.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	397.5	1.1
10°-20°	1322.5	3.5
20°-30°	2233.4	5.9
30°-40°	3090.6	8.2
40°-50°	4420.8	11.7
50°-60°	7130.3	18.9
60°-70°	10516.2	27.9
70°-80°	7636.6	20.2
80°-90°	973.5	2.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	37721.4	100.0
0°-180°	37721.4	100.0

**Coefficient of Utilization**



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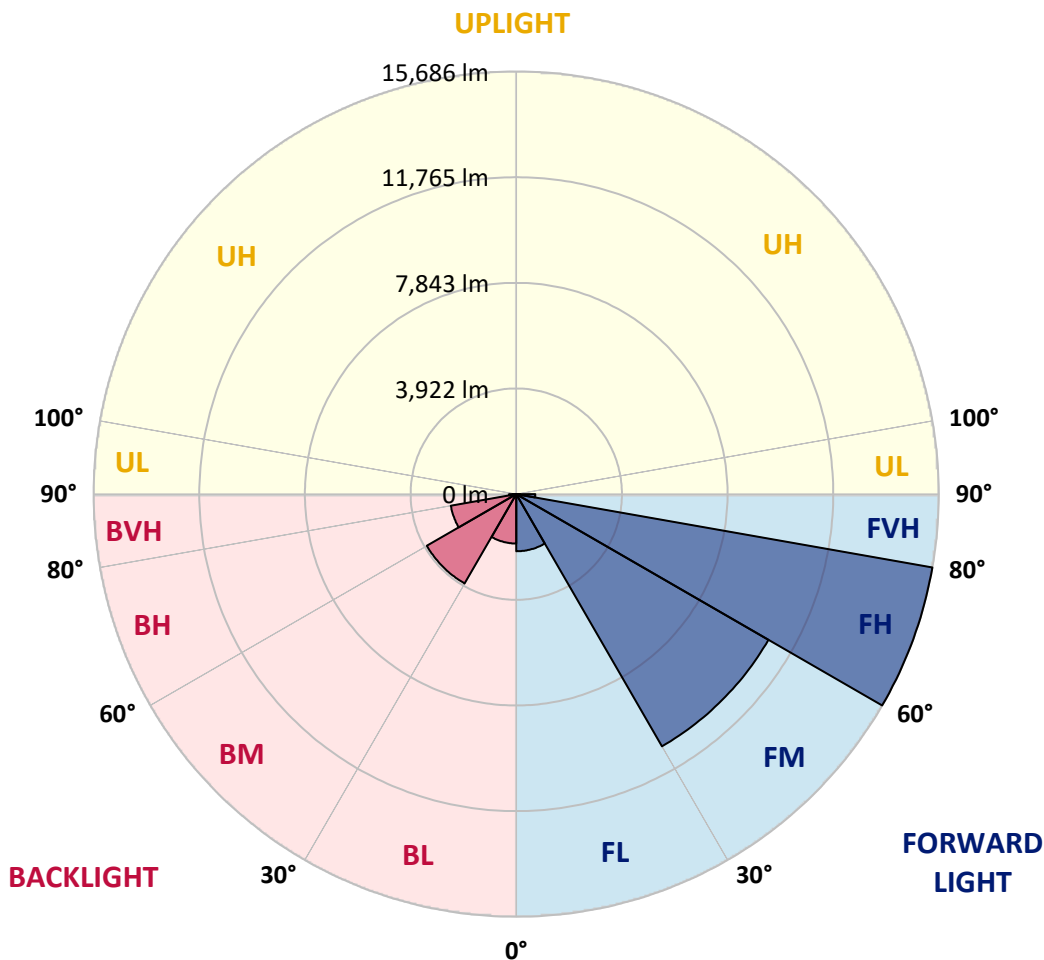
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2120.0	5.6			
FM	(30°-60°)	10809.6	28.7			
FH	(60°-80°)	15686.2	41.6			G5
FVH	(80°-90°)	708.6	1.9			G4/750
BL	(0°-30°)	1833.4	4.9	B3/2500		
BM	(30°-60°)	3832.1	10.2	B3/5000		
BH	(60°-80°)	2466.5	6.5	B3/2500		G3/2500
BVH	(80°-90°)	264.9	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3884.6	3884.6	3884.6	3884.6	3884.6	3884.6	3884.6	3884.6	3884.6	3884.6	3884.6
2.5°	4092.1	4116.5	4092.1	4088.0	4047.3	4018.9	4043.3	4006.6	3966.0	3949.7	3913.1
5°	4466.3	4470.4	4425.6	4429.7	4344.3	4254.8	4271.0	4161.2	4043.3	3998.5	3925.3
7.5°	4848.7	4803.9	4738.8	4718.5	4584.3	4486.6	4474.4	4376.8	4193.8	4092.1	3990.4
10°	5096.8	5113.1	5007.3	4917.8	4803.9	4685.9	4681.9	4498.8	4393.1	4242.6	4112.4
12.5°	5316.4	5320.5	5231.0	5088.6	4946.3	4799.8	4820.2	4738.8	4559.9	4417.5	4287.3
15°	5487.3	5462.9	5365.2	5235.1	5084.6	4970.7	4958.5	4889.3	4738.8	4620.9	4405.3
17.5°	5536.1	5523.9	5426.3	5288.0	5141.5	5056.1	5088.6	4974.8	4913.7	4808.0	4600.5
20°	5442.5	5414.1	5397.8	5243.2	5137.5	5129.3	5100.9	5125.3	5023.6	4925.9	4775.4
22.5°	5271.7	5259.5	5251.4	5129.3	5080.5	5117.1	5165.9	5202.5	5186.3	5092.7	4921.9
25°	5096.8	5153.7	5100.9	5043.9	5113.1	5206.6	5194.4	5312.4	5312.4	5283.9	5141.5
27.5°	5218.8	5182.2	5141.5	5113.1	5137.5	5283.9	5275.8	5418.1	5471.0	5418.1	5255.4
30°	5523.9	5487.3	5369.3	5243.2	5210.7	5369.3	5410.0	5536.1	5560.5	5430.3	5292.0
32.5°	6097.4	6077.1	5890.0	5519.8	5320.5	5410.0	5430.3	5572.7	5552.4	5471.0	5414.1
35°	6947.6	6878.4	6618.1	5991.7	5552.4	5462.9	5410.0	5523.9	5601.2	5560.5	5507.6
37.5°	7879.1	7801.8	7480.4	6687.2	5971.3	5605.2	5564.6	5658.1	5747.6	5727.3	5617.4
40°	8769.9	8769.9	8481.1	7557.7	6593.7	5951.0	5959.1	5853.4	5934.7	5898.1	5918.5
42.5°	9648.5	9616.0	9498.0	8578.7	7260.8	6528.6	6398.4	6134.0	6280.5	6268.3	6296.7
45°	10539.3	10514.9	10482.4	9530.5	8216.7	7309.6	7240.4	6764.5	6898.8	6841.8	6963.8
47.5°	11251.2	11279.6	11279.6	10592.2	9237.7	8350.9	8249.2	7496.7	7753.0	7781.4	7809.9
50°	11857.2	11869.4	11857.2	11605.0	10376.6	9542.7	9335.3	8570.6	8826.8	9050.6	9310.9
52.5°	12695.2	12711.4	12654.5	12556.9	11922.3	10795.6	10563.7	9713.6	10238.3	10474.2	10942.0
55°	13728.4	13606.3	13500.6	13573.8	13407.0	12174.5	11934.5	10893.2	11682.3	11995.5	12931.1
57.5°	13919.5	14025.3	14293.8	14875.4	15115.4	13516.8	13378.5	12341.3	13313.5	13586.0	15148.0
60°	14594.8	14419.9	15078.8	16339.8	16608.3	15265.9	15123.6	13927.7	14936.5	15221.2	17194.0
62.5°	15038.2	15030.0	16006.3	17503.2	18113.3	17080.1	16791.3	15990.0	16689.6	16966.2	19423.1
65°	14908.0	15025.9	16758.8	18186.5	19370.2	19142.4	18975.7	17763.5	18686.8	18662.4	20875.2
67.5°	13720.2	14053.8	16282.9	18678.7	21241.3	21656.2	21603.4	20257.0	20309.8	19793.3	21522.0
70°	12072.8	11958.9	14269.4	18166.2	22176.9	24637.8	24625.6	22111.8	21770.1	20041.4	19667.2
72°	9274.3	9148.2	11047.8	15599.5	21684.7	25829.7	26195.8	23397.2	21753.9	19012.3	16246.2
72.5°	8420.1	8310.2	10201.7	14684.3	21139.6	26138.8	25968.0	23446.0	21583.0	18528.2	15176.5
75°	3876.5	3750.4	5096.8	8989.5	16490.3	23161.3	23743.0	21941.0	18849.6	14749.3	9091.2
77.5°	1155.2	1118.6	1639.3	3628.4	9583.4	17063.8	17287.6	16555.4	13158.9	8078.4	3372.1
80°	642.7	646.8	846.1	1358.6	4214.1	9864.1	10669.5	10226.1	6455.4	2668.4	1122.7
82.5°	358.0	378.3	528.8	805.4	1936.2	4527.3	4873.1	4698.2	2334.8	1252.8	614.2
85°	187.1	195.2	276.6	431.2	1098.3	1431.8	1472.5	1578.3	1212.2	854.2	329.5
87.5°	73.2	73.2	101.7	179.0	406.8	443.4	398.6	484.1	695.6	553.2	162.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3884.6	3884.6	3884.6	3884.6	3884.6	3884.6	3884.6	3884.6	3884.6	3884.6	3884.6
2.5°	3945.6	3913.1	3909.0	3856.1	3872.4	3827.7	3831.7	3823.6	3827.7	3819.5	3799.2
5°	3925.3	3900.9	3831.7	3876.5	3835.8	3892.8	3937.5	3921.2	3933.4	3929.4	3933.4
7.5°	3953.8	3921.2	3913.1	3888.7	3925.3	3949.7	3986.3	4088.0	4079.9	4092.1	4116.5
10°	4039.2	4002.6	3978.2	4014.8	3994.4	4071.7	4112.4	4165.3	4258.8	4262.9	4214.1
12.5°	4206.0	4181.6	4132.7	4140.9	4210.0	4234.4	4258.8	4291.4	4352.4	4340.2	4384.9
15°	4397.1	4344.3	4315.8	4307.7	4323.9	4352.4	4348.3	4380.9	4413.4	4441.9	4429.7
17.5°	4535.4	4466.3	4474.4	4515.1	4511.0	4502.9	4450.0	4433.8	4450.0	4466.3	4458.2
20°	4677.8	4685.9	4624.9	4588.3	4572.1	4490.7	4450.0	4401.2	4352.4	4376.8	4413.4
22.5°	4856.8	4820.2	4730.7	4620.9	4539.5	4490.7	4364.6	4279.2	4279.2	4303.6	4291.4
25°	5060.2	4982.9	4828.3	4629.0	4527.3	4319.9	4230.4	4218.2	4185.6	4222.2	4238.5
27.5°	5218.8	5149.7	4938.1	4600.5	4319.9	4153.1	4100.2	4083.9	4136.8	4140.9	4206.0
30°	5283.9	5263.6	4954.4	4527.3	4108.3	3839.9	3807.3	3880.6	3937.5	4022.9	4027.0
32.5°	5369.3	5377.5	4978.8	4356.5	3831.7	3563.3	3514.5	3603.9	3766.7	3835.8	3888.7
35°	5511.7	5552.4	4958.5	4144.9	3538.9	3282.6	3274.5	3298.9	3457.5	3579.5	3648.7
37.5°	5759.8	5751.7	4954.4	3892.8	3307.0	3038.5	2973.5	2981.6	3087.4	3189.0	3176.8
40°	6093.4	6060.8	4942.2	3563.3	3006.0	2831.1	2721.3	2680.6	2672.5	2644.0	2652.1
42.5°	6548.9	6483.9	4938.1	3229.7	2733.5	2546.4	2469.1	2363.3	2286.0	2139.6	2147.7
45°	7183.5	7069.6	4832.4	2916.5	2465.0	2310.4	2192.5	2115.2	1948.4	1765.4	1765.4
47.5°	8163.8	7793.6	4836.5	2570.8	2204.7	2078.6	1997.2	1863.0	1684.0	1537.6	1521.3
50°	9607.8	8761.7	4698.2	2298.2	1993.2	1907.7	1822.3	1667.7	1496.9	1395.2	1407.4
52.5°	11470.8	10205.8	4694.1	2054.2	1826.4	1765.4	1671.8	1533.5	1407.4	1342.3	1317.9
55°	13691.8	12117.6	4840.5	1854.9	1655.5	1623.0	1582.3	1468.4	1346.4	1289.4	1285.4
57.5°	15965.6	13984.6	5076.4	1712.5	1509.1	1533.5	1505.0	1415.5	1317.9	1252.8	1244.7
60°	17987.2	15465.3	4600.5	1541.6	1378.9	1431.8	1472.5	1395.2	1342.3	1338.3	1309.8
62.5°	19512.6	16099.8	3498.2	1411.5	1309.8	1407.4	1517.2	1566.1	1541.6	1574.2	1578.3
65°	20069.9	15717.5	2408.1	1342.3	1256.9	1464.4	1708.4	1692.1	1549.8	1488.8	1521.3
67.5°	19288.9	14167.7	1785.7	1261.0	1220.3	1582.3	1818.2	1614.9	1399.3	1391.1	1366.7
70°	16587.9	12007.7	1456.2	1175.6	1159.3	1517.2	1769.4	1496.9	1317.9	1265.0	1240.6
72°	13215.8	9351.6	1277.2	1114.5	1061.7	1354.5	1655.5	1403.3	1248.8	1183.7	1155.2
72.5°	12064.7	8668.2	1252.8	1086.1	1041.3	1317.9	1598.6	1374.9	1232.5	1175.6	1130.8
75°	6618.1	4437.8	1102.3	996.6	878.6	1138.9	1480.6	1289.4	1163.4	1082.0	1073.9
77.5°	2460.9	1720.6	951.8	882.7	760.7	984.4	1346.4	1224.4	1057.6	955.9	935.6
80°	943.7	907.1	776.9	744.4	638.6	862.3	1240.6	1098.3	899.0	797.3	764.7
82.5°	573.5	528.8	589.8	581.7	488.1	785.1	1167.4	1029.1	797.3	646.8	626.4
85°	313.2	313.2	410.8	394.6	341.7	626.4	882.7	683.4	504.4	414.9	423.0
87.5°	138.3	162.7	219.7	207.5	187.1	353.9	431.2	362.0	252.2	170.8	183.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)